





SOIL BORING LOG

Well / Boring No. MW-27

Sheet 1 of 4

Client	ARCO 1289	Date	December 9, 2008
Address	3675 Wilshire Blvd.	Driller	JDK Drilling, Inc.
	South Gate, CA 90280	Drilling Foreman	Julio Guerrero
Project No.	1400.1289-1	Method	HSA (LAR)
Logged By:	Steve Kalina	hole diam.:	10"
		Total depth of boring:	70.5 feet bgs
Well Pack:	sand (#2/12): 33-70.5 ft bgs	Well Construction:	casing: PVC
Bentonite Chips:	1-3 & 30-33 ft bgs		screen: 35-70 ft bgs
Bentonite Grout:	3-30 ft bgs		casing diam.: 4"
			screen slot: 0.020"
		Depth to Groundwater:	60 feet bgs

Sample		Blow	Sample		Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.	Count	Time	Recov.				
					1		5" Asphalt cover at surface.	
					2			
					3		Cleared 0 - 5 feet with Air Knife 8-Dec-08	
					4			
		7			X 5	SM	SILTY SAND (SM), dark olive brown (2.5Y 3/3), 80% very fine to fine micaceous sand, some silt, moderately graded, medium dense, damp.	0
		7			X 6			
		9		100%	X 7			
					8			
					9			
		7			X 10	SM	SILTY SAND (SM), dark olive brown (2.5Y 3/3), 80% very fine to fine micaceous sand, some silt, moderately graded, medium dense, damp.	0
		11			X 11			
		13		70%	X 12			
					13			
					14			
		7			X 15	SM	SILTY SAND (SM), dark olive brown (2.5Y 3/3), 80% very fine to fine micaceous sand, some silt, moderately graded, medium dense, damp.	0
E	MW-27-15'	14	8:20	80%	X 16			
					17			
					18			
					19			
		10			X 20			
		10			X 21			

-  Concrete
-  Bentonite Grout
-  Bentonite Chips
-  #2/12 Sand

E = Encore Soil Sample
X = Sample Interval

Comments:

Boring located offsite within Nevill Avenue, approximately 110 feet north of Mason Street.







SOIL BORING LOG

 Well / Boring No. **MW-27**

Sheet 2 of 4

Client	ARCO 1289	Date	December 9, 2008
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Logged By:	Steve Kalina	hole diam.:	10"
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Well Pack:	sand (#2/12): 33-70.5 ft bgs	Well Construction:	casing: PVC
			screen: 35-70 ft bgs
Bentonite Chips:	1-3 & 30-33 ft bgs	casing diam.:	4"
			screen slot: 0.020"
Bentonite Grout:	3-30 ft bgs	Depth to Groundwater:	60 feet bgs

Sample Type	Sample No.	Blow Count	Sample Time	Sample Recov.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
		14		100%	X 2 1	SM	SILTY SAND (SM), dark olive brown (2.5Y 3/3), 80% very fine to fine micaceous sand, some silt, moderately graded, medium dense, damp.	0
					2 2			
					2 3			
					2 4			
	10				X 2 5	SP	SAND (SP), olive brown (2.5YR 4/3), 95% very fine to fine sand, trace silt, poorly graded, medium dense, damp.	0
	12				X 2 6			
	13			100%	2 7			
					2 8			
					2 9			
	11				X 3 0	SP	SAND (SP), dark olive brown (2.5Y 3/3), 80% very fine to fine sand, little medium sand, trace silt, poorly graded, medium dense, damp.	5.6
	11			100%	X 3 1			
	11				3 2			
					3 3			
					3 4			
	9				X 3 5	SP	SAND (SP), olive brown (2.5YR 4/3), 95% fine to medium sand, trace silt, poorly graded, medium dense, damp.	7.9
	10				X 3 6			
	11			70%	3 7			
					3 8			
					3 9			
	13				X 4 0			
	14				X 4 0			

	Concrete
	Bentonite Grout
	Bentonite Chips
	#2/12 Sand

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Comments:

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



SOIL BORING LOG

 Well / Boring No. **MW-27**

Sheet 3 of 4

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Bentonite Grout:	3-30 ft bgs		casing diam.: 4"
			screen slot: 0.020"
		Depth to Groundwater:	60 feet bgs

Sample		Blow	Sample		Depth	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.	Count	Time	Recov.	Scale			
		15		100%	X 4 1	SM	SILTY SAND (SM), very dark greyish brown (2.5Y 3/2), 80% very fine to fine micaceous sand, some silt, trace medium sand, moderately graded, medium dense, damp.	6.5
					4 2			
					4 3			
					4 4			
		13			X 4 5	SM	SILTY SAND (SM), very dark greyish brown (2.5Y 3/2), 80% fine micaceous sand, some silt, moderately graded, medium dense, moist.	7.9
		14			X 4 6			
		17		80%	4 7			
					4 8			
					4 9			
		10			X 5 0	SM	SILTY SAND (SM), dark olive brown (5Y 3/2), 65% very fine micaceous sand, some silt, moderately graded, medium dense, moist.	8.2
		13			X 5 1			
		14		100%	5 2			
					5 3			
					5 4			
		13			X 5 5	SM	SILTY SAND (SM), dark olive brown (5Y 3/2), 60% very fine micaceous sand, some silt, trace clay, moderately graded, medium dense, moist.	7.3
		15			X 5 6			
		17		100%	5 7			
					5 8			
					5 9			
		15			X 6 0			
		16			X 6 0			

-  Concrete
-  Bentonite Grout
-  Bentonite Chips
-  #2/12 Sand

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Groundwater
Comments:
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



SOIL BORING LOG

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Bentonite Grout:	3-30 ft bgs	Depth to Groundwater:	60 feet bgs

Sample		Blow	Sample		Depth	LITHO COLUMN	Descriptions of Materials and Conditions	PID (PPM)
Type	No.	Count	Time	Recov.	Scale			
		18		100%	X 6 1	SM	SILTY SAND (SM), dark olive brown (5Y 3/2), 70% very fine micaceous sand, some silt, moderately graded, medium dense, wet.	7.9
					6 2			
					6 3			
					6 4			
		12			X 6 5	SM	SILTY SAND (SM), very dark greyish brown (2.5Y 3/2), 70% very fine to fine micaceous sand, some silt, moderately graded, medium dense, moist.	6.5
		14			X 6 6			
		16		100%	X 6 7			
					6 8			
					6 9	SP	SAND (SP), dark olive brown (5Y 3/2), 85% very fine to fine micaceous sand, little medium sand, trace silt, poorly graded, medium dense, wet.	47.9
		13			X 7 0			
E	MW-27-70'	15	9:30	100%	X 7 1			
					7 2			
					7 3		--Boring terminated at 70.5 feet bgs and subsequently converted into a groundwater monitoring well.	
					7 4			
					7 5			
					7 6			
					7 7			
					7 8			
					7 9			
					8 0			

	Concrete
	Bentonite Grout
	Bentonite Chips
	#2/12 Sand

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